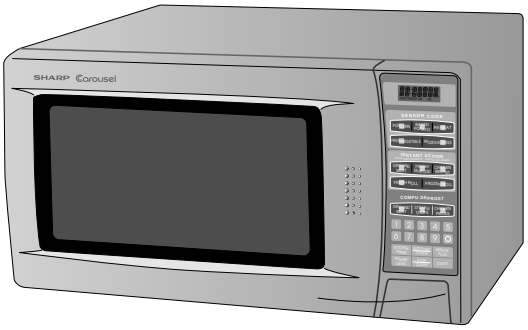
SHARP
SUPPLEMENTAL SERVICE MANUAL

S915R318BPK/

MICROWAVE OVEN



MODEL R-318BK

In the interest of user-safety the oven should be restored to its original condition and only parts identical to those specified should be used.

WARNING TO SERVICE PERSONNEL: Microwave ovens contain circuitry capable of producing very high voltage and current, contact with following parts may result in a severe, possibly fatal, electrical shock. (High Voltage Capacitor, High Voltage Power Transformer, Magnetron, High Voltage Rectifier Assembly, High Voltage Harness etc..)

This is a supplemental Service Manual for Model R-318BK. This model is quite similar to base model R-320BK. Use this supplemental manual together with the Base Model Service Manual (Refer No. is S2805R320BPW/) for complete operation, service information, etc..

TABLE OF CONTENTS

	Page
PRECAUTIONS TO BE OBSERVED BEFORE AND DURING SERVICING TO AVOID POSSIBLE EXPOSURE TO EXCESSIVE MICROWAVE ENERGY	INSIDE FRONT COVER
BEFORE SERVICING	INSIDE FRONT COVER
WARNING TO SERVICE PERSONNEL	1
MICROWAVE MEASUREMENT PROCEDURE	2
FOREWORD AND WARNING	3
PRODUCT SPECIFICATIONS	4
SCHEMATIC DIAGRAM	5
TEST PROCEDURE	6
POWER UNIT CIRCUIT	7
CPU UNIT CIRCUIT	8
PRINTED WIRING BOARD	9
PARTS LIST	10
PACKING AND ACCESSORIES	14

SHARP CORPORATION

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The contents are subject to change without notice.

PRECAUTIONS TO BE OBSERVED BEFORE AND DURING SERVICING TO AVOID POSSIBLE EXPOSURE TO EXCESSIVE MICROWAVE ENERGY

(a) Do not operate or allow the oven to be operated with the door open.
(b) Make the following safety checks on all ovens to be serviced before activating the magnetron or other microwave source, and make repairs as necessary: (1) interlock operation, (2) proper door closing, (3) seal and sealing surfaces (arcing, wear, and other damage), (4) damage to or loosening of hinges and latches, (5) evidence of dropping or abuse.
(c) Before turning on microwave power for any service test or inspection within the microwave generating compartments, check the magnetron, wave guide or transmission line, and cavity for proper alignment, integrity, and connections.
(d) Any defective or misadjusted components in the interlock, monitor, door seal, and microwave generation and transmission systems shall be repaired, replaced, or adjusted by procedures described in this manual before the oven is released to the owner.
(e) A microwave leakage check to verify compliance with the Federal Performance Standard should be performed on each oven prior to release to the owner.

BEFORE SERVICING

Before servicing an operative unit, perform a microwave emission check as per the Microwave Measurement Procedure outlined in this service manual.
If microwave emissions level is in excess of the specified limit, contact SHARP ELECTRONICS CORPORATION immediately @1-800-237-4277.

If the unit operates with the door open, service person should 1) tell the user not to operate the oven and 2) contact SHARP ELECTRONICS CORPORATION and The Food and Drug Administration's Center for Devices and Radiological Health immediately.

Service personnel should inform SHARP ELECTRONICS CORPORATION of any certified unit found with emissions in excess of 4mW/cm^2. The owner of the unit should be instructed not to use the unit until the oven has been brought into compliance.

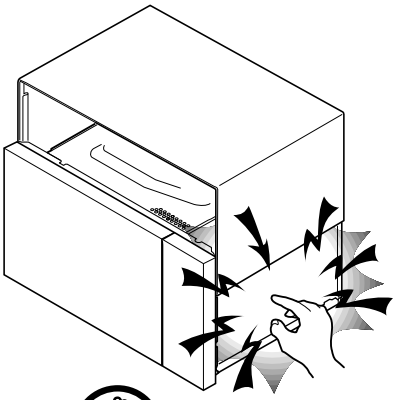
WARNING TO SERVICE PERSONNEL

Microwave ovens contain circuitry capable of producing very high voltage and current, contact with following parts may result in a severe, possibly fatal, electrical shock.

(Example)

High Voltage Capacitor, High Voltage Power Transformer, Magnetron, High Voltage Rectifier Assembly, High Voltage Harness etc..

Read the Service Manual carefully and follow all instructions.



Don't Touch !
Danger High Voltage

Before Servicing

1. Disconnect the power supply cord , and then remove outer case.
2. Open the door and block it open.
3. Discharge high voltage capacitor.

WARNING: RISK OF ELECTRIC SHOCK. DISCHARGE THE HIGH-VOLTAGE CAPACITOR BEFORE SERVICING.

The high-voltage capacitor remains charged about 60 seconds after the oven has been switched off. Wait for 60 seconds and then short-circuit the connection of the high-voltage capacitor (that is the connecting lead of the high-voltage rectifier) against the chassis with the use of an insulated screwdriver.

Whenever troubleshooting is performed the power supply must be disconnected. It may in, some cases, be necessary to connect the power supply after the outer case has been removed, in this event,

1. Disconnect the power supply cord, and then remove outer case.
2. Open the door and block it open.
3. Discharge high voltage capacitor.
4. Disconnect the leads to the primary of the power transformer.
5. Ensure that the leads remain isolated from other components and oven chassis by using insulation tape.
6. After that procedure, reconnect the power supply cord.

When the testing is completed,

1. Disconnect the power supply cord, and then remove outer case.
2. Open the door and block it open.
3. Discharge high voltage capacitor.
4. Reconnect the leads to the primary of the power transformer.
5. Reinstall the outer case (cabinet).
6. Reconnect the power supply cord after the outer case is installed.
7. Run the oven and check all functions.

After repairing

1. Reconnect all leads removed from components during testing.
2. Reinstall the outer case (cabinet).
3. Reconnect the power supply cord after the outer case is installed.
4. Run the oven and check all functions.

Microwave ovens should not be run empty. To test for the presence of microwave energy within a cavity, place a cup of cold water on the oven turntable, close the door and set the power to HIGH and set the microwave timer for two (2) minutes. When the two minutes has elapsed (timer at zero) carefully check that the water is now hot. If the water remains cold carry out **Before Servicing** procedure and re-examine the connections to the component being tested.

When all service work is completed and the oven is fully assembled, the microwave power output should be checked and microwave leakage test should be carried out.

MICROWAVE MEASUREMENT PROCEDURE

A. Requirements:

1) Microwave leakage limit (Power density limit): The power density of microwave radiation emitted by a microwave oven should not exceed 1mW/cm^2 at any point 5cm or more from the external surface of the oven, measured prior to acquisition by a purchaser, and thereafter (through the useful life of the oven), 5 mW/cm^2 at any point 5cm or more from the external surface of the oven.
2) Safety interlock switches Primary interlock relay and door sensing switch shall prevent microwave radiation emission in excess of the requirement as above mentioned, secondary interlock switch shall prevent microwave radiation emission in excess of 5 mW/cm^2 at any point 5cm or more from the external surface of the oven.

B. Preparation for testing:
Before beginning the actual measurement of leakage, proceed as follows:
1) Make sure that the actual instrument is operating normally as specified in its instruction booklet.

   Important:
   Survey instruments that comply with the requirement for instrumentation as prescribed by the performance standard for microwave ovens, 21 CFR 1030.10(c)(3)(i), must be used for testing.

2) Place the oven tray in the oven cavity.
3) Place the load of 275±15 ml (9.8 oz) of tap water initially at 20±5˚C (68˚F) in the center of the oven cavity.
   The water container shall be a low form of 600 ml (20 oz) beaker with an inside diameter of approx. 8.5 cm (3-1/2 in.) and made of an electrically nonconductive material such as glass or plastic.
   The placing of this standard load in the oven is important not only to protect the oven, but also to insure that any leakage is measured accurately.
4) Set the cooking control on Full Power Cooking Mode
5) Close the door and select a cook cycle of several minutes. If the water begins to boil before the survey is completed, replace it with 275 ml of cool water.

C. Leakage test:

Closed-door leakage test (microwave measurement)
1) Grasp the probe of the survey instrument and hold it perpendicular to the gap between the door and the body of the oven.
2) Move the probe slowly, not faster than 1 in./sec. (2.5 cm/sec.) along the gap, watching for the maximum indication on the meter.
3) Check for leakage at the door screen, sheet metal seams and other accessible positions where the continuity of the metal has been breached (eg., around the switches, indicator, and vents).
   While testing for leakage around the door pull the door away from the front of the oven as far as is permitted by the closed latch assembly.
4) Measure carefully at the point of highest leakage and make sure that the highest leakage is no greater than 4mW/cm^2, and that the secondary interlock switch does turn the oven OFF before any door movement.

NOTE: After servicing, record data on service invoice and microwave leakage report.

SERVICE MANUAL

SHARP

MICROWAVE OVEN

R-318BK

FOREWORD

This Manual has been prepared to provide Sharp Electronics Corp. Service Personnel with Operation and Service Information for the SHARP MICROWAVE OVEN, R-318BK.

The model R-318BK is quite similar to base model R-320BK (Refer No. is S2805R320BPW/).

It is recommended that service personnel carefully study the entire text of this manual and the base model's manual so that they will be qualified to render satisfactory customer service.

Check the interlock switches and the door seal carefully. Special attention should be given to avoid electrical shock and microwave radiation hazard.

WARNING

Never operate the oven until the following points are ensured.
(A) The door is tightly closed.
(B) The door brackets and hinges are not defective.
(C) The door packing is not damaged.
(D) The door is not deformed or warped.
(E) There is no other visible damage with the oven.

Servicing and repair work must be carried out only by trained service personnel.

DANGER

Certain initial parts are intentionally not grounded and present a risk of electrical shock only during servicing. Service personnel - Do not contact the following parts while the appliance is energized;
High Voltage Capacitor, Power Transformer, Magnetron, High Voltage Rectifier Assembly, High Voltage Harness;
If provided, Vent Hood, Fan assembly, Cooling Fan Motor.

All the parts marked "*" on parts list are used at voltages more than 250V.

Removal of the outer wrap gives access to voltage above 250V.

All the parts marked "Δ" on parts list may cause undue microwave exposure, by themselves, or when they are damaged, loosened or removed.

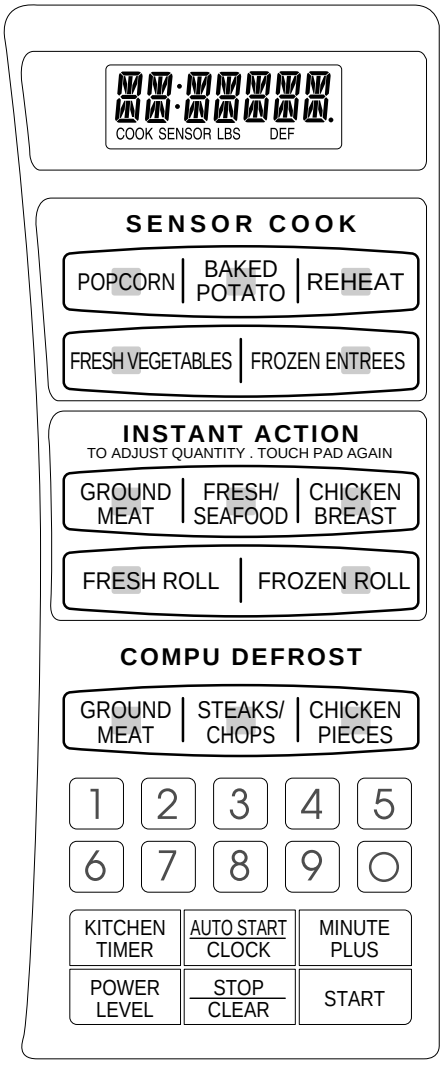
SHARP ELECTRONICS CORPORATION

SHARP PLAZA, MAHWAH,
NEW JERSEY 07430-2135

SPECIFICATION

ITEM	DESCRIPTION
Power Requirements	120 Volts / 14 Amperes 60 Hertz Single phase, 3 wire grounded
Power Output	1100 watts (IEC-705 TEST PROCEDURE) Operating frequency of 2450MHz
Case Dimensions	Width 20-1/2" Height 11-7/8" Depth 15-7/8"
Cooking Cavity Dimensions 1.0 Cubic Feet	Width 13-3/4" Height 8-3/8" Depth 14-7/8"
Control Complement	Touch Control System Clock (1:00 - 12:59) Timer (0 - 99 min. 99 seconds) Microwave Power for Variable Cooking Repetition Rate; P-HI ..... Full power throughout the cooking time P-90 ..... approx. 90% of Full Power P-80 ..... approx. 80% of Full Power P-70 ..... approx. 70% of Full Power P-60 ..... approx. 60% of Full Power P-50 ..... approx. 50% of Full Power P-40 ..... approx. 40% of Full Power P-30 ..... approx. 30% of Full Power P-20 ..... approx. 20% of Full Power P-10 ..... approx. 10% of Full Power P-0 ..... No power throughout the cooking time SENSOR COOK pads, INSTANT ACTION pads COMPU DEFROST pads, Number selection pads KITCHEN TIMER pad, AUTO START/CLOCK pad MINUTE PLUS pad, POWER LEVEL pad STOP/CLEAR pad, START pad
Oven Cavity Light	Yes
Safety Standard	UL Listed FCC Authorized DHHS Rules, CFR, Title 21, Chapter 1, Subchapter J

TOUCH CONTROL PANEL



SCHEMATIC

NOTE: CONDITION OF OVEN
1. DOOR CLOSED
2. CLOCK APPEARS ON DISPLAY

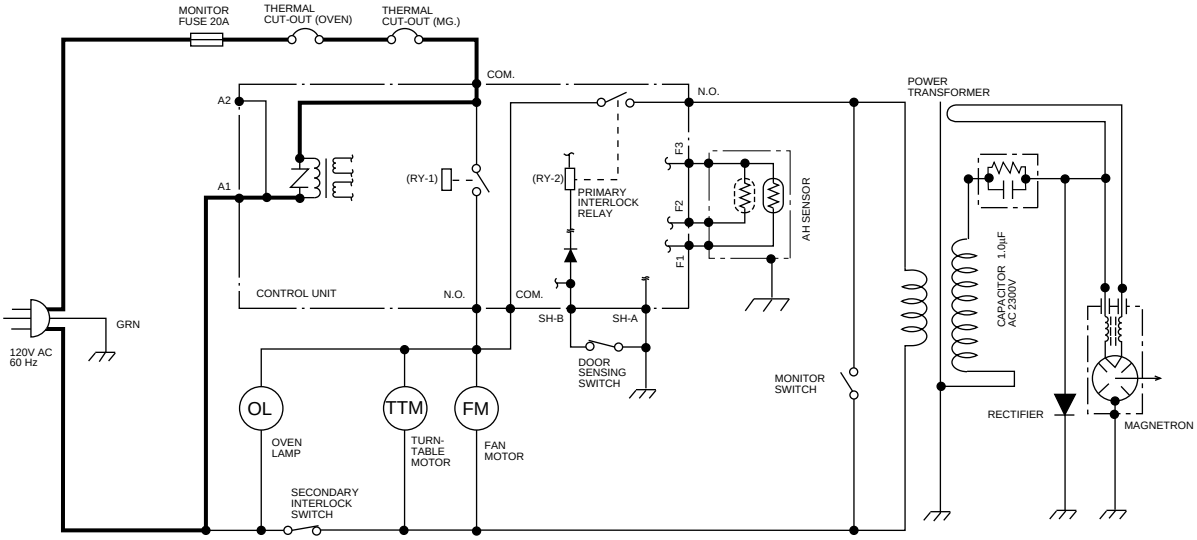


Figure O-1. Oven Schematic-Off Condition

TROUBLESHOOTING GUIDE

Never touch any part in the circuit with your hand or an uninsulated tool while the power supply is connected.

When troubleshooting the microwave oven, it is helpful to follow the Sequence of Operation in performing the checks. Many of the possible causes of trouble will require that a specific test be performed. These tests are given a procedure letter which will be found in the "Test Procedure "section.

IMPORTANT: If the oven becomes inoperative because of a blown monitor fuse, check the monitor switch, relay (RY1) primary interlock relay (RY2), door sensing switch and secondary interlock switch before replacing the monitor fuse. If monitor fuse is replaced, the monitor switch must also be replaced. Use part FFS-BA021WRK0 as an assembly.

IMPORTANT: Whenever troubleshooting is performed with the power supply cord disconnected. It may in, some cases, be necessary to connect the power supply cord after the outer case has been removed, in this event,

1. Disconnect the power supply cord, and then remove outer case.
2. Open the door and block it open.
3. Discharge high voltage capacitor.
4. Disconnect the leads to the primary of the power transformer.
5. Ensure that the leads remain isolated from other components and oven chassis by using insulation tape.
6. After that procedure, reconnect the power supply cord.

When the testing is completed

1. Disconnect the power supply cord, and then remove outer case.
2. Open the door and block it open.
3. Discharge high voltage capacitor.
4. Reconnect the leads to the primary of the power transformer.
5. Reinstall the outer case (cabinet).
6. Reconnect the power supply cord after the outer case is installed.
7. Run the oven and check all functions.

TEST PROCEDURES

PROCEDURE LETTER	COMPONENT TEST
H	**BLOWN MONITOR FUSE TEST**

1. Disconnect the power supply cord, and then remove outer case.
2. Open the door and block it open.
3. Discharge high voltage capacitor.
4. If the monitor fuse is blown when the door is opened, check the primary interlock relay, secondary interlock switch and monitor switch according to the "TEST PROCEDURE" for those switches before replacing the blown monitor fuse.

CAUTION: BEFORE REPLACING A BLOWN MONITOR FUSE, TEST THE PRIMARY INTERLOCK RELAY, SECONDARY INTERLOCK SWITCH, DOOR SENSING SWITCH AND MONITOR SWITCH FOR PROPER OPERATION.

If the monitor fuse is blown by improper switch operation, the monitor fuse and monitor switch must be replaced with "monitor fuse and monitor switch assembly" part number FFS-BA021WRK0, even if the monitor switch operates normally. The monitor fuse and monitor switch assembly is comprised of a 20 ampere fuse and switch.

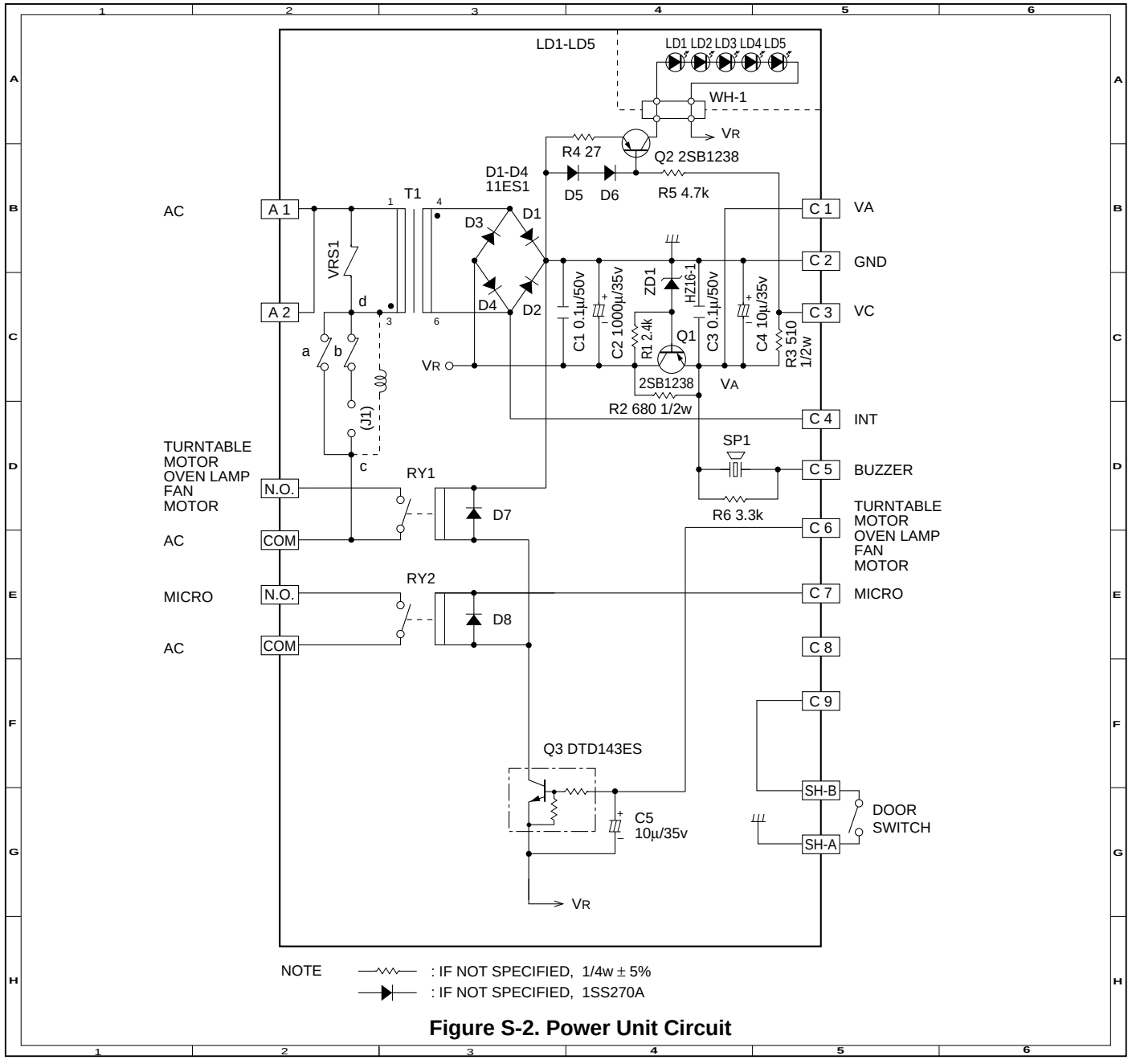
5. Reconnect all leads removed from components during testing.
6. Reinstall the outer case (cabinet).
7. Reconnect the power supply cord after the outer case is installed.
8. Run the oven and check all functions.

J	**KEY UNIT TEST**

1. Disconnect the power supply cord, and then remove outer case.
2. Open the door and block it open.
3. Discharge high voltage capacitor.

4. If the display fails to clear when the STOP/CLEAR pad is depressed, first verify the flat ribbon cable is making good contact, verify that the door sensing switch (stop switch) operates properly; that is the contacts are closed when the door is closed and open when the door is open. If the door sensing switch (stop switch) is good, disconnect the flat ribbon cable that connects the key unit to the control unit and make sure the door sensing switch is closed (either close the door or short the door sensing switch connecter). Use the Key unit matrix indicated on the control panel schematic and place a jumper wire between the pins that correspond to the STOP/CLEAR pad making momentary contact. If the control unit responds by clearing with a beep the key unit is faulty and must be replaced. If the control unit does not respond, it is faulty and must be replaced. If a specific pad does not respond, the above method may be used (after clearing the control unit) to determine if the control unit or key pad is at fault.
5. Reconnect all leads removed from components during testing.
6. Re-install the outer case (cabinet).
7. Reconnect the power supply cord after the outer case is installed.
8. Run the oven and check all functions.

	G 8	G 7	G 6	G 5	G 4	G 3	G 2	G 1
G 9	5	4	3	2	1	Reheat	Popcorn	
G10	0	9	8	7	6	Baked potato	Fresh Vegetables	KITCHEN TIMER
G11	MINUTE PLUS	Chicken pieces	Chicken breast			Fish / seafood	Ground meat (INSTANT ACTION)	POWER LEVEL
G12	START	AUTO START / CLOCK	Frozen roll / muffin	Steaks / chops	Frozen entrees	Ground meat (COMPU DEFROST)	Fresh roll / muffin	STOP / CLEAR



NOTE : IF NOT SPECIFIED, 1/4w ± 5%
: IF NOT SPECIFIED, 1SS270A

Figure S-2. Power Unit Circuit

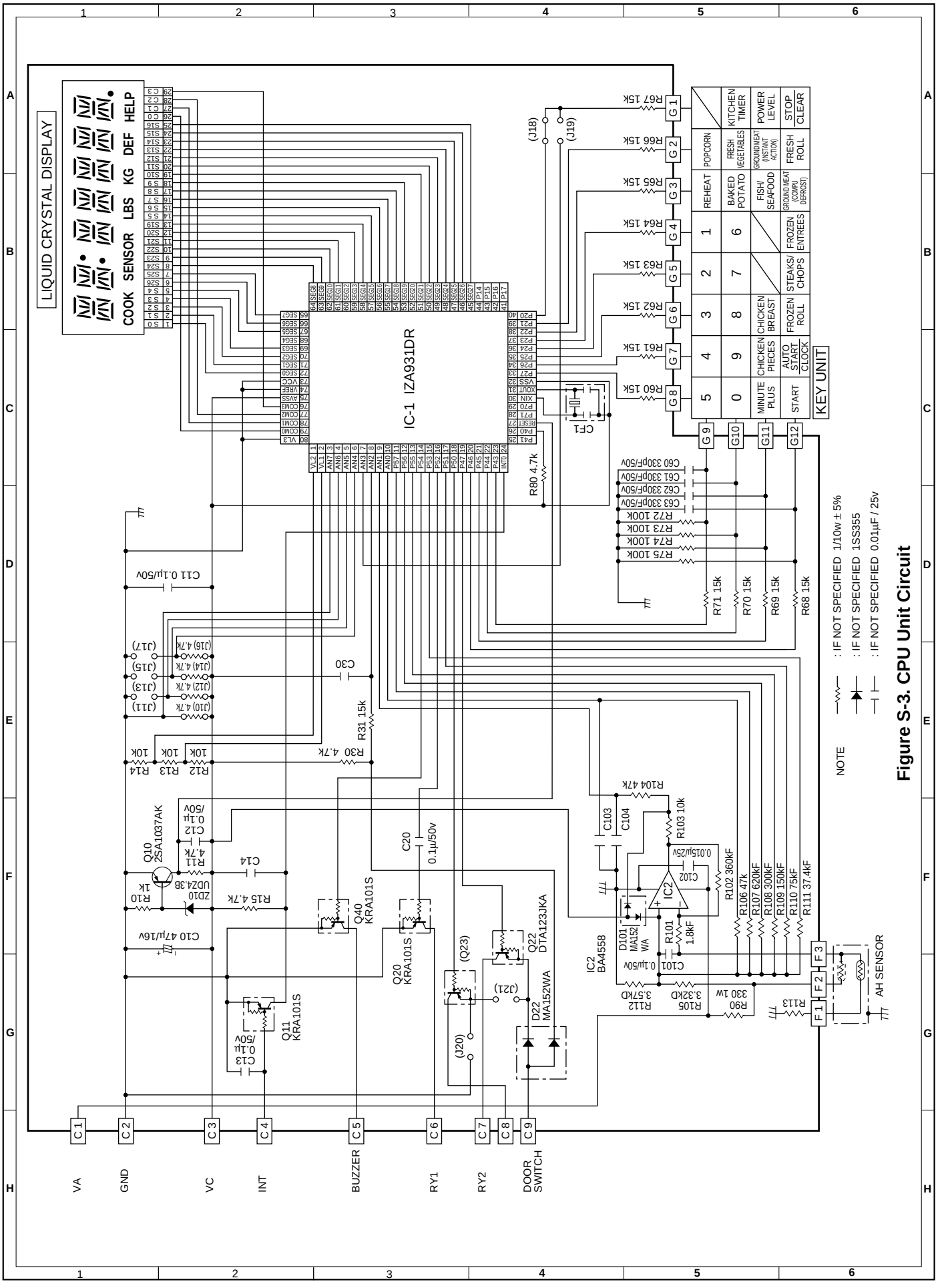


Figure S-3. CPU Unit Circuit

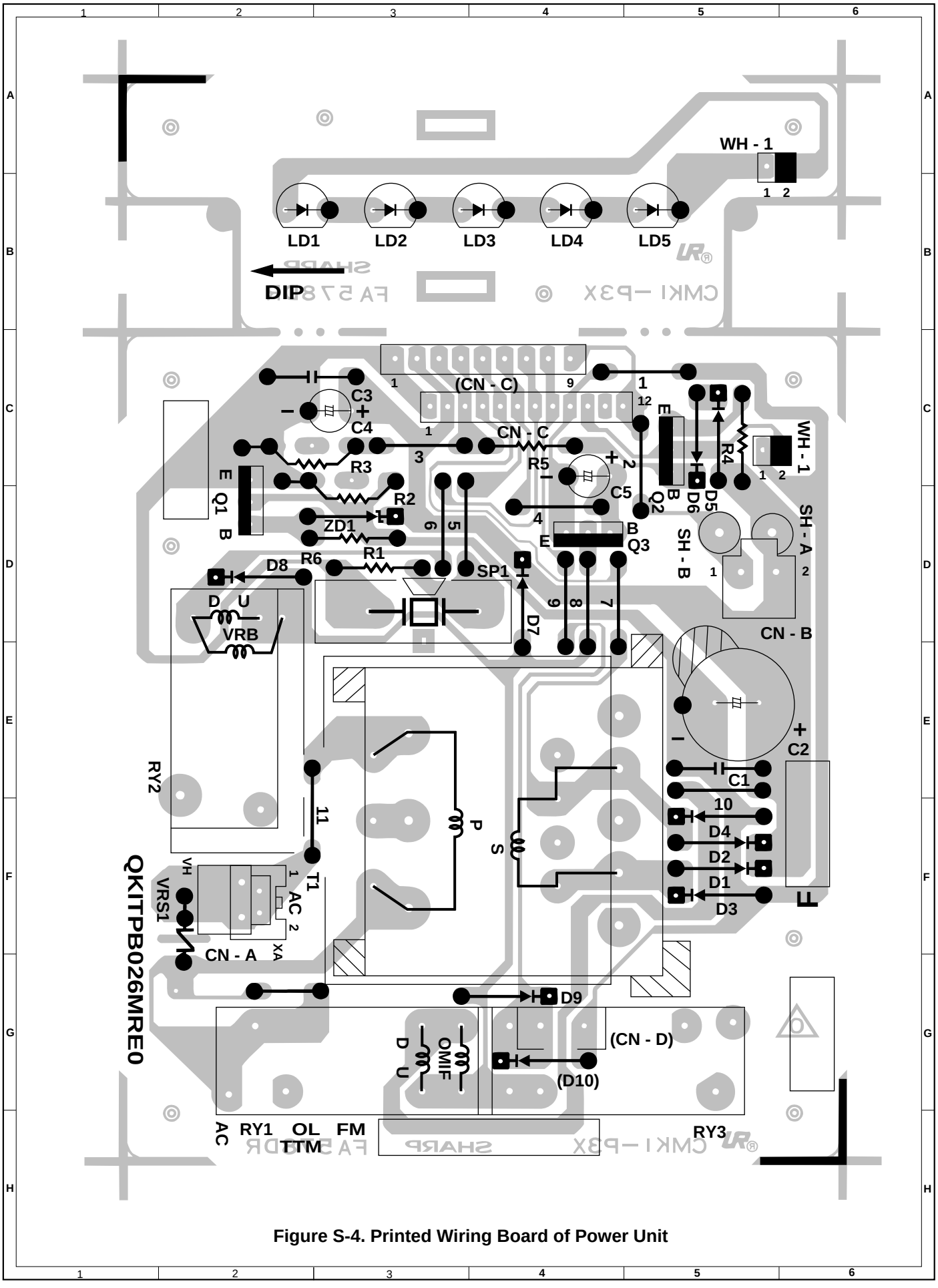


Figure S-4. Printed Wiring Board of Power Unit

PARTS LIST

Note: The parts marked "∆" may cause undue microwave exposure.
The parts marked "*" are used in voltage more than 250V.

	REF. NO.	PART NO.	DESCRIPTION	Q'TY	CODE
			ELECTRIC PARTS		
	1- 1	QSW-MA131WRE0	2nd interlock switch / door sensing switch	2	AG
	1- 1	QSW-MA110WRE0	2nd interlock switch / door sensing switch (Interchangeable)	2	AH
	1- 2	QFSHDA009WRE0	Fuse holder	1	AH
	1- 3	FFS-BA021WRK0	Monitor fuse and monitor switch assembly	1	AL
	1- 4	RTHM-A078WRE0	Thermal cut-out 125 deg.	1	AL
	1- 5	FACCDA077WRE0	Power supply cord	1	AU
*	1- 6	FH-DZA083WRK0	High voltage rectifier assembly	1	AQ
*	1- 7	RC-QZA236WRE0	High voltage capacitor	1	AU
∆*	1- 8	RV-MZA267WRE0	Magnetron	1	BL
∆*	1- 8	RV-MZA197WRE0	Magnetron (Interchangeable)	1	BN
	1- 9	RMOTEA355WRE0	Fan motor	1	AU
	1- 9	RMOTEA338WRE0	Fan motor (Interchangeable)	1	AS
	1-10	QSOCLA021WRE0	Oven lamp socket	1	AH
	1-11	RLMPTA068WRE0	Oven lamp	1	AG
	1-12	RMOTDA161WRE0	Turntable motor	1	AU
	1-13	RTHM-A048WRE0	Thermal cut-out 170 deg.	1	AH
*	1-14	RTRN-A569WRE0	Power transformer	1	BP
	1-15	FDTCTA176WRK0	AH sensor assembly	1	AV
			CABINET PARTS		
	2- 1	GCABUA631WRP0	Outer case cabinet	1	BB
	2- 2	GDAI-A261WRW0	Bottom left plate	1	AP
	2- 3	GDAI-A286WRW0	Bottom right plate	1	AN
	2- 4	GLEGPA019WRE0	Foot	2	AD
	2- 5	GLEGPA067WRF0	Leg	1	AE
			CONTROL PANEL PARTS		
	3- 1	CPWBFA776WRK0	Power unit	1	BD
	3- 1A	QCNCMA446DRE0	2-pin connector (CN-A)	1	AC
	3- 1B	QCNCMA422DRE0	9-pin connector (CN-C)	1	AF
	3- 1C	FW-VZA196DRE0	2P wire harness (WH-1)	1	AD
	3- 1D	FW-VZA195DRE0	Switch harness A (SH-A)	1	AD
	3- 1E	FW-VZA197DRE0	Switch harness B (SH-B)	1	AD
	3- 1F	LHLD-A171WRF0	LED holder	1	AE
	C1	RC-KZA087DRE0	Capacitor 0.1 uF 50V	1	AA
	C2	VCEAB31VW108M	Capacitor 1000 uF 35V	1	AF
	C3	RC-KZA087DRE0	Capacitor 0.1 uF 50V	1	AA
	C4-5	VCEAB31VW106M	Capacitor 10 uF 35V	2	AA
	D1-4	VHD11ES1///-1	Diode (11ES1)	4	AB
	D5-8	VHD1SS270A/-1	Diode (1SS270ATA)	4	AA
	LD1-5	VHPSLZ381A9-3	Light emitting diode	5	AC
	Q1-2	VS2SB1238//-3	Transistor (2SB1238)	2	AA
	Q3	VSDTD143ES/-3	Transistor (DTD143ES)	1	AC
	R1	VRD-B12EF242J	Resistor 2.4k ohm 1/4W	1	AA
	R2	VRD-B12HF681J	Resistor 680 ohm 1/2W	1	AA
	R3	VRD-B12HF511J	Resistor 510 ohm 1/2W	1	AB
	R4	VRD-B12EF270J	Resistor 27 ohm 1/4W	1	AB
	R5	VRD-B12EF472J	Resistor 4.7k ohm 1/4W	1	AA
	R6	VRD-B12EF332J	Resistor 3.3k ohm 1/4W	1	AA
	RY1	RRLY-A076DRE0	Relay (OMIF-S-124LM)	1	AK
	RY2	RRLY-A081DRE0	Relay (VRB24)	1	AL
	SP1	RALM-A014DRE0	Buzzer (PKM22EPT)	1	AG
	T1	RTRNPA111DRE0	Transformer	1	AP
	VRS1	RH-VZA032DRE0	Varistor (10G471K)	1	AE
	ZD1	VHEHZ161///-1	Zener diode (HZ16-1)	1	AA
	3- 2	DPWBFB753WRK0	CPU unit	1	BD
	3- 3	FPNLCB409WRK0	Control panel frame with key unit	1	BA
	3- 3-1	FUNTKA907WRE0	Key unit	1	AU
	3- 3-2	JBTN-B088WRF0	Open button	1	AF
	3- 3-3	MSPRCA050WRE0	Open button spring	1	AB
	3- 4	PSHEPA588WRE0	LED sheet	1	AE
	3- 5	XEPSD30P08XS0	Screw; 3mm x 8mm	4	AA
			OVEN PARTS		
	4- 1	PCUSUA376WRP0	Cushion	1	AG
	4- 2	PPACGA084WRF0	TTM packing	1	AF
∆	4- 3	PHOK-A106WRF0	Latch hook	1	AL

	REF. NO.	PART NO.	DESCRIPTION	Q'TY	CODE
	4- 4	LBNDKA099WRW0	Capacitor holder	1	AD
	4- 5	NFANJA029WRE0	Fan blade	1	AL
	4- 6	PDUC-A652WRP0	Fan duct	1	AU
Δ	4- 7	**********	Oven cavity **(Not a replaceable part)**	1	--
	4- 8	LANGFA175WRP0	Chassis support	1	AX
	4- 9	LANGQA452WRP0	Partition angle	1	AK
	4-10	LANGQA492WRP0	MG thermo angle	1	AV
	4-11	MLEVPA226WRF0	Switch lever	1	AF
	4-12	NCPL-A045WRF0	Coupling	1	AH
	4-13	PCUSGA399WRE0	Cushion	1	AF
	4-14	PCOVPA275WRE0	Waveguide cover	1	AR
	4-15	PCUSGA339WRP0	Cushion	1	AG
	4-16	PCUSUA212WRP0	Cushion	1	AB
	4-17	LANGTA338WRP0	Sensor mounting angle	1	AP
	4-18	GCOVHA385WRF0	Choke cover	1	AG
	4-19	PCUSGA385WRP0	Cushion	1	AH
	4-20	PCUSUA192WRP0	Cushion	1	AD
	4-21	PCUSUA329WRP0	Cushion	1	AC
	4-22	PGIDHA058WRP0	MG air guide	1	AE
	4-23	PCUSUA126WRE0	Cushion	1	AC

DOOR PARTS

Δ	5- 1	FDORFA318WRT0	Door panel	1	BE
	5- 2	PSHEPA382WRE0	Sealer film	1	AH
Δ	5- 3	GWAKPA547WRR0	Door frame	1	AZ
	5- 4	HPNL-A684WRR0	Door screen	1	AT
Δ	5- 5	LSTPPA139WRF0	Latch head	1	AF
	5- 6	MSPRTA187WRE0	Latch spring	1	AC
	5- 7	PCUSUA504WRP0	Cushion	5	AB
	5- 8	XCPSD40P08000	Screw : 4mm x 8mm	1	AA
	5- 9	XCPSD40P08WN2	Screw : 4mm x 8mm	1	AC

MISCELLANEOUS

	6- 1	FROLPA079WRK0	Turntable support	1	AQ
	6- 2	NTNT-A084WRE0	Turntable tray	1	AQ
	6- 3	FW-VZB678WRE0	Main wire harness	1	AW
*	6- 4	QW-QZA150WRE0	High voltage wire B	1	AF
	6- 5	PZET-A012WRE0	Terminal insulator	1	AB
	6- 6	TCAUAA166WRR0	DHHS caution label	1	AC
	6- 7	TCAUAA200WRR0	Monitor caution label	1	AB
	6- 9	TCAUAA240WRR0	Screw caution	1	AC

SCREWS,NUTS AND WASHERS

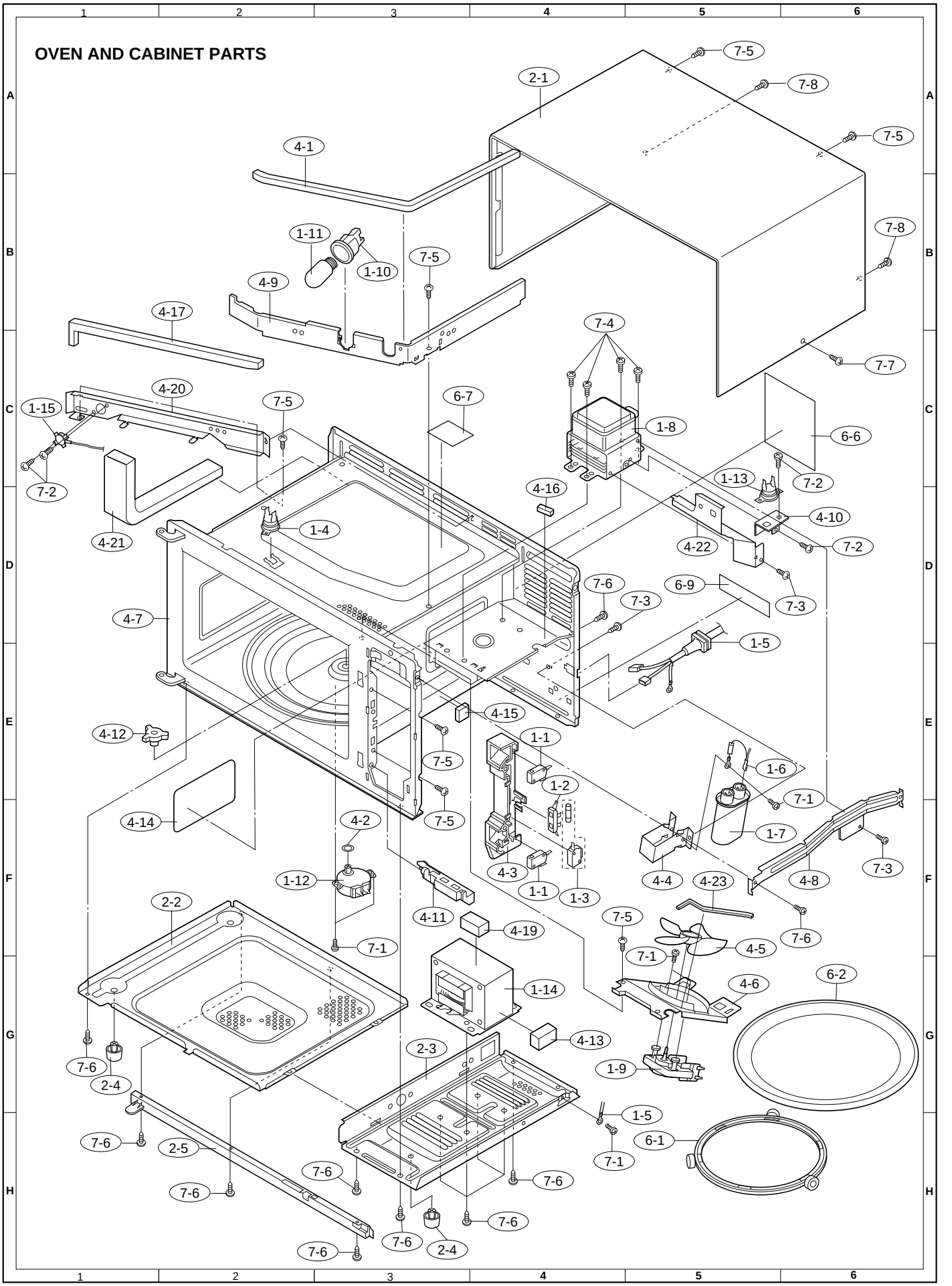
	7- 1	XFPSD40P08K00	Screw : 4mm x 8mm	6	AA
	7- 2	XHPSD30P06000	Screw : 3mm x 6mm	4	AA
	7- 3	XHTSD40P08RV0	Screw : 4mm x 8mm	3	AA
	7- 4	XFTSD40P08000	Screw : 4mm x 8mm	4	AA
	7- 5	XOTSD40P12RV0	Screw : 4mm x 12mm	7	AA
	7- 6	XOTSD40P12000	Screw : 4mm x 12mm	13	AA
	7- 7	XOTSF40P08000	Screw : 4mm x 8mm	1	AA
	7- 8	LX-CZA070WRE0	Special screw (Torx tamper proof screw)	2	AC

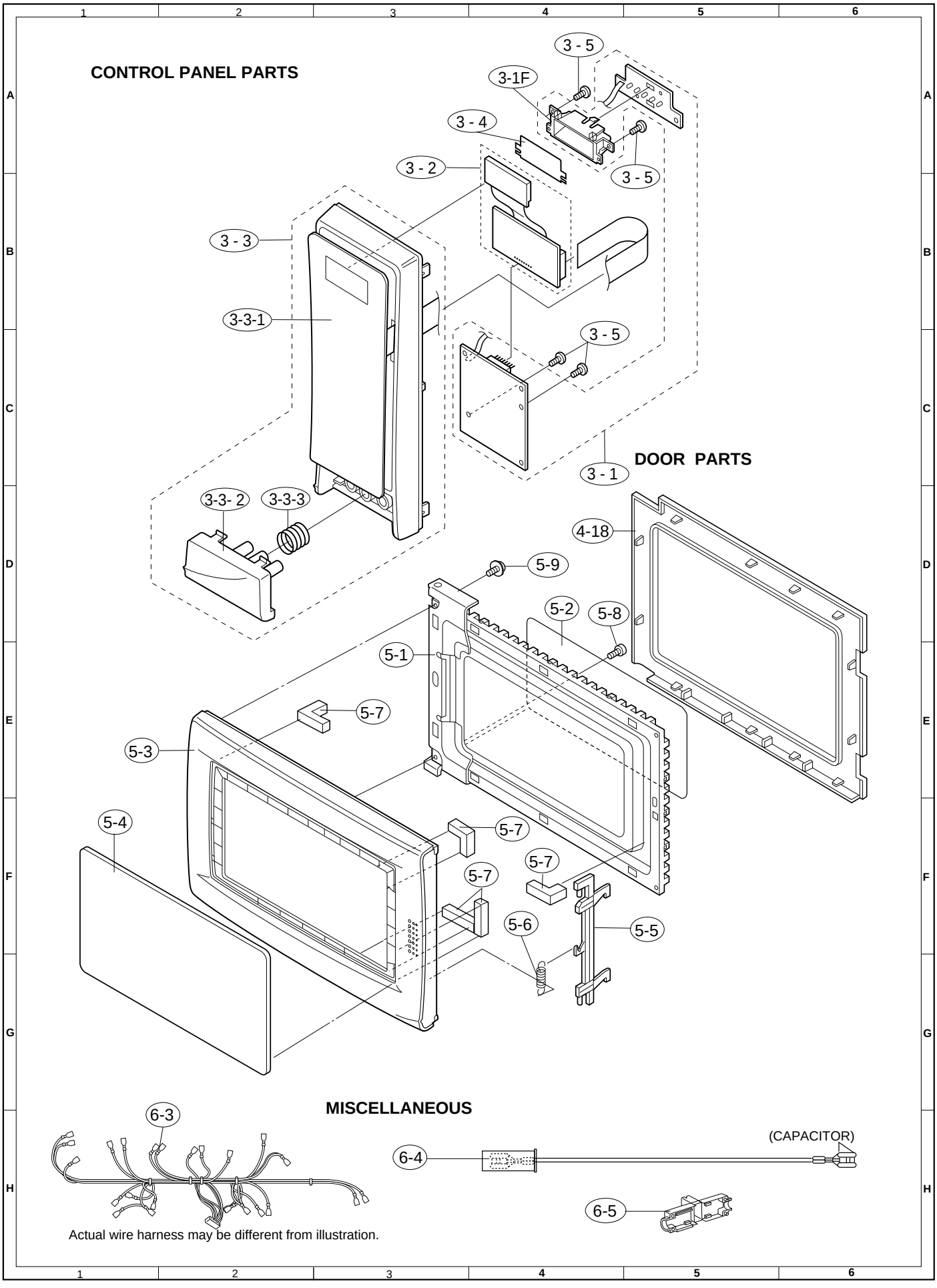
HOW TO ORDER REPLACEMENT PARTS

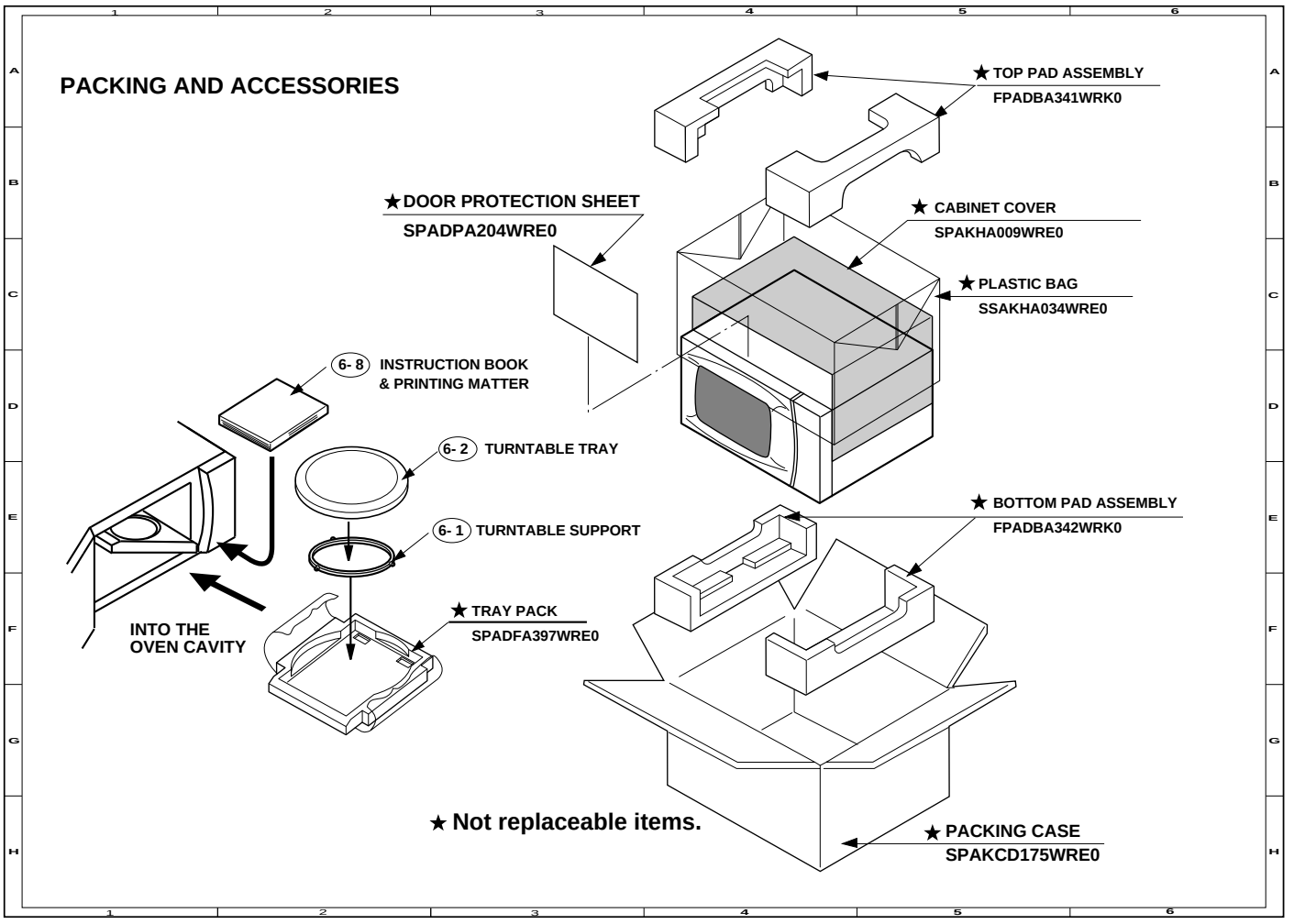
To have your order filled promptly and correctly, please furnish the following information.

1. MODEL NUMBER 2. REF. NO. 3. PART NO. 4. DESCRIPTION

Order Parts from the authorized SHARP parts Distributor for your area.
Defective parts requiring return should be returned as indicated in the Service Policy.


OVEN AND CABINET PARTS
1 2 3 4 5 6
A B C D E F G H
2-1
7-5
7-8
4-1
1-11
1-10
4-9
4-17
7-4
7-7
4-20
1-15
6-7
1-8
6-6
7-2
1-13
4-16
4-10
4-21
1-4
4-22
6-9
7-6
7-3
4-7
1-5
4-15
4-12
1-1
1-6
1-2
7-1
4-14
4-2
1-7
4-3
4-4
4-23
4-8
1-12
1-3
4-11
4-19
7-5
4-5
2-2
1-14
6-2
4-6
4-13
2-3
1-9
2-4
1-5
6-1
2-5
7-6
2-4


CONTROL PANEL PARTS
3 - 5
3-1F
3 - 4
3 - 2
3 - 5
3 - 3
3-3-1
3 - 5
3 - 1
DOOR PARTS
3-3- 2
3-3-3
4-18
5-9
5-2
5-8
5-1
5-7
5-3
5-4
5-7
5-7
5-7
5-6
5-5
MISCELLANEOUS
6-3
(CAPACITOR)
6-4
6-5
Actual wire harness may be different from illustration.



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